02961058 **Image available**
PRODUCTION OF IMIDES

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ABSTRACT
PURPOSE: To easily obtain the subject compound useful as agricultural chemicals, pharmaceuticals and their intermediates, by reacting a specific organic halide available at a low cost with CO and amines in the presence of a specific catalyst and a base.

CONSTITUTION: The imides of formula VI can be produced e.g. by reacting an organic halide of formula IV (R(sup 1) is (substituted)alicyclic hydrocarbon group, etc.; Y is halogen; m is integer of >=2) with carbon monoxide and amines of formula V (R(sup 2) is H, etc.) (e.g. NH(sub 3), methylamine or ethylenediamine) in the presence of caralysts (Pd compound and a phosphine compound) and a base (e.g. Na(sub 2)CO(sub 3), K(sub 2)CO(sub 3) or NaOH). The amount of the amine of formula V is 1-2mol per 1mol of a pair of adjacent halogen atoms on the ring of the organic halide.